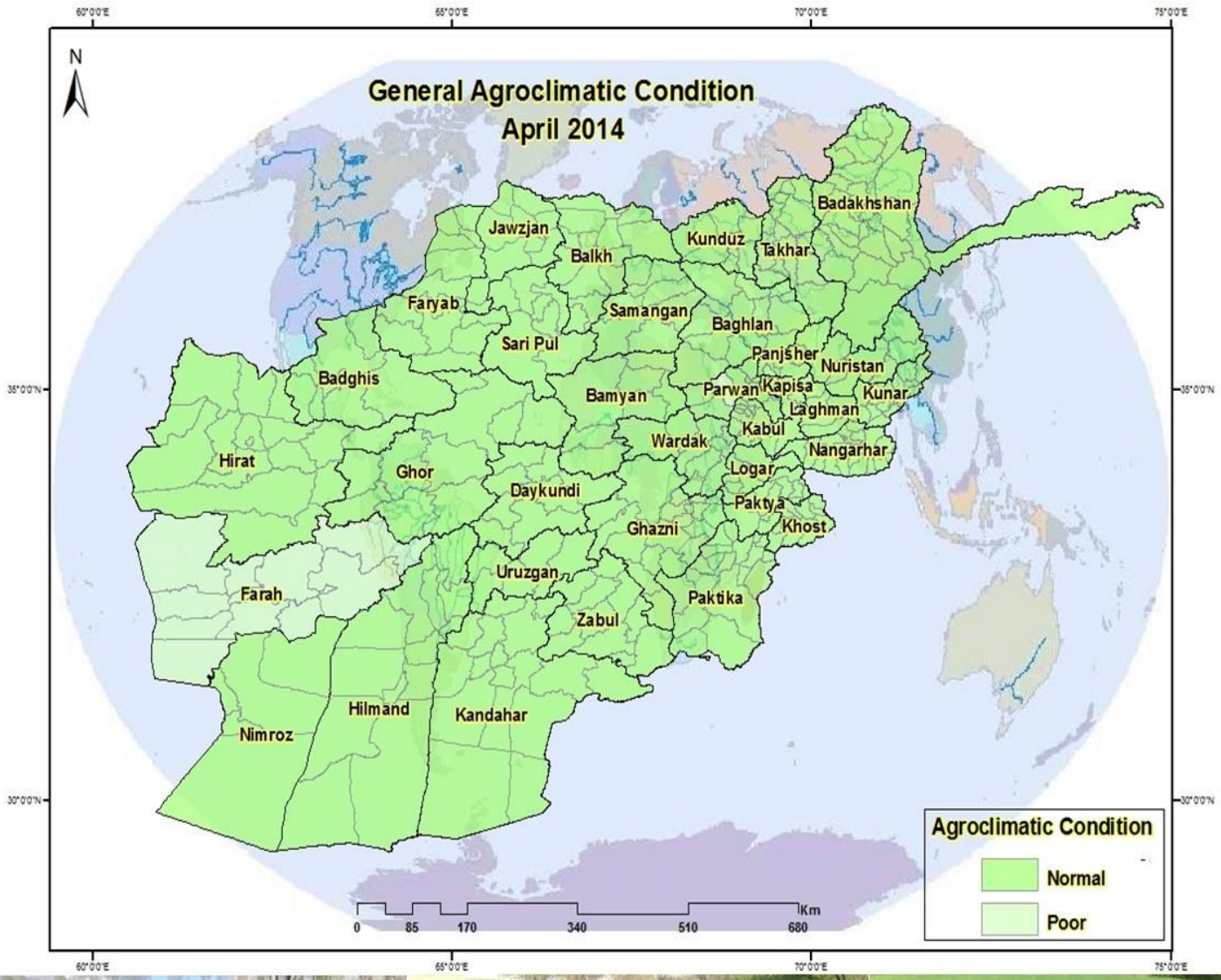
Issue No: 110
April: 2014

The fghanistan grometeorological AAM onthly Bulletin

Topics Crop Information Precipitation Temperature NDVI



Adverse Factor 1

Crop Condition 2

Crop Stage 3

The Agromet Network in Ministry of Agriculture, Irrigation, and Livestock(MAIL) is financially supported by European Union.

BULLETIN

Issue No: 110
April 2014

The Afghanistan's Agromet Monthly Bulletin is being Published on monthly Bases in Dari and English Languages.

CONTENTS

Crop Information

Rainfall Situation

Snowfall Situation

Data Source:

Ministry of Agriculture , Irrigation and Livestock (MAIL), Agromet Project and United States Geological Survey (USGS).

Summary

In the entire country growth of wheat is somehow satisfactory and due to low temperature and more rainfall in some parts of the country crop is behind schedule. However weeds, storm, frost, more rainfall and poor rainfall have been reported in a few areas such as Paghman and Surubi districts of Kabul province, Dara district of Panjsher province, Mahmood Raqi center of Kapisa province, Ali Sher district of khost province, Tirin Kot center of Urozgan province, Darzab district of Jawzjan province and Andkhoy and Garzewan districts of Faryab province. The crop is reported at Emergence stage in few parts of the country such as Panjsher, daykundi and Takhar provinces.

The crop is at vegetative and flowering stages in most parts of the country such as Parwan, Kapisa, Logar, Khost and Paktika Provinces. The crop is at grain filling stage in some parts of the country Such as Kunar, Laghman, Farah and Nangarhar Provinces. During the month of April 2014, above normal rainfall was reported in most parts of the country such as Daykundi, Panjsher, Jawzjan, Khost, Bamyan and Logar provinces. Whereas below normal in some parts such as Takhar, Nuristan and Badghish provinces. Number of rainy days recorded in the country range from 1 – 14 days. The maximum number of rainy days in the country was observed 13 at Paktiya Province.

Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Wheat		
				Crop Stage	Crop Condition	Adverse Factor
Central	Kabul	Paghman	Paghman	Vegetative	Normal	More Rainfall
		Kabul	Darulaman	Vegetative	Normal	Not Existed
		Surubi	Surubi	Grain filling	Normal	Weeds
	Panjsher	Dara	Dara	Emergence	Normal	Weeds
		Dashtak	Dashtak	Emergence	Normal	Not Existed
	Parwan	Syagerd	Gorband	Vegetative	Good	Not Existed
		Charikar	Charikar	Vegetative	Normal	Not Existed
	Kapisa	Mahmoodraqi	Mahmoodraqi	Flowering	Normal	Weeds
		Kohistan	Kohistan	Flowering	Normal	Not Existed
	Wardak	Maidan shehr	Maidan shehr	Vegetative	Normal	Not Existed
		Sayed Abad	Sayed Abad	Vegetative	Normal	Not Existed
	Logar	Pole Alam	Pole Alam	Flowering	Normal	Not Existed
	Bamyan	Bamyan	Bamyan	Vegetative	Normal	Not Existed
		Yakawlang	Yakawlang	Vegetative	Normal	Not Existed
		Panjab	Panjab	Dormancy		
		Kohmard	Kohmard	Vegetative	Normal	Not Existed
	Ghazni	Andar	Bande Sardi	Emergence	Normal	Not Existed
		Muqar	Muqar	Emergence	Normal	Not Existed
	Dikondy	Dasht	Nili	Vegetative	Normal	Not Existed
		Khideer	Khideer	Emergence	Normal	Not Existed
East	Nangarhar	Agam	Agam	Flowering	Normal	Not Existed
		Batikot	Ghaziabad	Grain filling	Normal	Not Existed
		Jalalabad	Farm jaded	Flowering	Normal	Not Existed

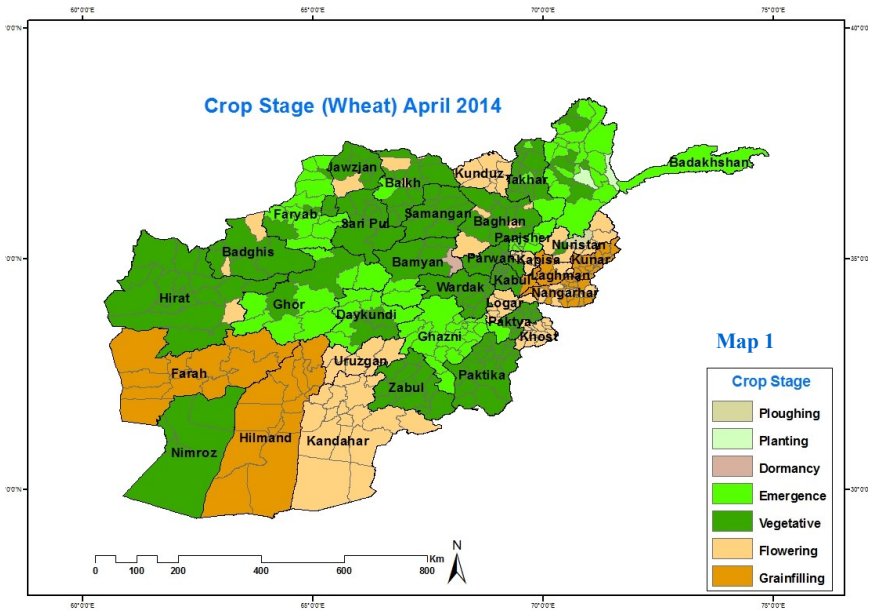
Crop Stage, Crop Condition and Adverse Factor

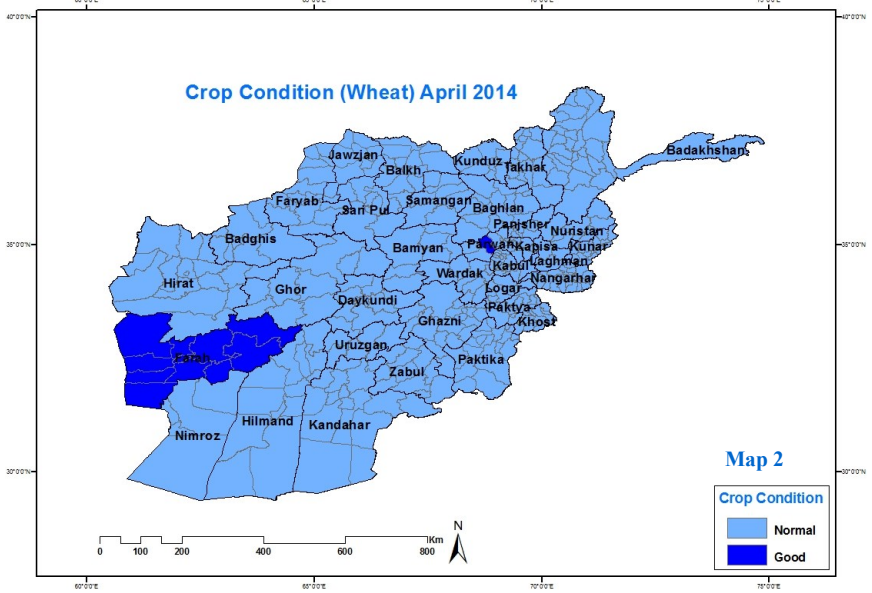
Zone	Province	District	Station	Wheat		
				Crop Stage	Crop Condition	Adverse Factor
East	Kunar	Asmar	Asmar	Grain filling	Normal	Not Existed
		Asad Abad	Asad Abad	Grain filling	Normal	Not Existed
		Chawkay	Chawkay	Grain filling	Normal	Not Existed
	Laghman	Mihtarlam	Mihtarlam	Grain filling	Normal	Not Existed
		Qarghay	Qarghay	Grain filling	Normal	Not Existed
		Alengar	Alengar	Flowering	Normal	Not Existed
	Noristan	Paroon	Paroon	**Ploughing**		
		Do Ab	Do Ab	Vegetative	Normal	Not Existed
		Norgaram	Norgaram	Flowering	Normal	Not Existed
		Waigal	Waigal	Flowering	Normal	Not Existed
North East	Takhar	Taluqan	Taluqan	Emergence	Normal	Not Existed
		Rostaq	Rostaq	Vegetative	Normal	Not Existed
	Kunduz	Imam Sahib	Imam Sahib	Flowering	Normal	Not Existed
		Qaliazal	Aqtipa	Flowering	Normal	Not Existed
		Khan Abad	Khan Abad	Flowering	Normal	Not Existed
		Kunduz	Kunduz	Flowering	Normal	Not Existed
		Archi	Archi	Flowering	Normal	Not Existed
		Chardara	Chardara	Flowering	Normal	Not Existed
		Ali Abad	Ali Abad	Flowering	Normal	Not Existed
	Baghlan	Pulikhomri	Pozaishan	Flowering	Normal	Not Existed
		Doshy	Doshy	Flowering	Normal	Not Existed
	Badakhshan	Eshkashm	Eshkashm	Planting	Normal	Not Existed
		Baharak	Baharak	Vegetative	Normal	Not Existed
		Argo	Argo	Vegetative	Normal	Not Existed
		Khash	Khash	Emergence	Normal	Not Existed
		Faiz Abad	Faiz Abad	Vegetative	Normal	Not Existed
South East	Khost	Khost	Khost	Flowering	Normal	More Rainfall
		Khost	Shimal	Flowering	Normal	More Rainfall
		Ali Sher	Ali Sher	Flowering	Normal	More Rainfall
	Paktia	Zormat	Rohani Baba	Emergence	Normal	Not Existed
		Gardiz	Tera	Vegetative	Normal	Not Existed
	Paktika	Urgon	Urgon	Vegetative	Normal	Not Existed
		Sharana	Sharana	Vegetative	Normal	Not Existed
		Khair kot	Khair Kot	Vegetative	Normal	Not Existed

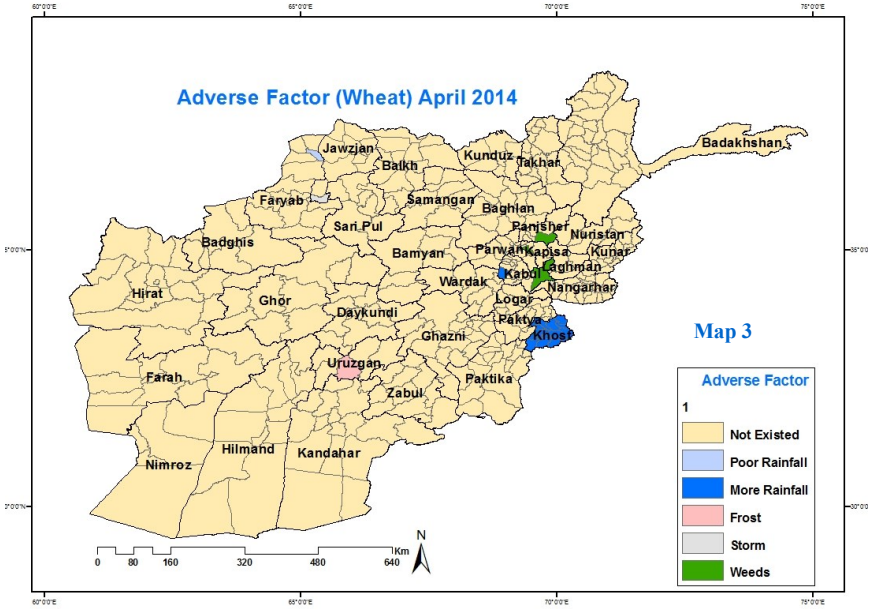
Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Wheat		
				Crop Stage	Crop Condition	Adverse Factor
South	Nimroz	Zaranj	Zaranj	Vegetative	Normal	Not Existed
	Kandahar	Kandahar	Kandahar	Flowering	Normal	Not Existed
		Kohkaran	Kohkaran	Flowering	Normal	Not Existed
	Zabul	Qalat	Qalat	Vegetative	Normal	Not Existed
	Urozgan	Tirin Kot	Tirin Kot	Flowering	Normal	Frost
	Hilmand	Nad Ali	Nad Ali	Grain filling	Normal	Not Existed
		Greshk	Greshk	Grain filling	Normal	Not Existed
		Nawa	Nawa	Grain filling	Normal	Not Existed
		Lashkargah	Bolan	Grain filling	Normal	Not Existed
North	Balkh	Takhta pol	Dehdadi	Flowering	Normal	Not Existed
		Mazar shareef	Mazare shareef	Vegetative	Normal	Not Existed
		Nahrishahi	Nahrishahi	Vegetative	Normal	Not Existed
		Dawlat Abad	Dawlat Abad	Flowering	Normal	Not Existed
	Jawzjan	Sheberghan	Sheberghan	Flowering	Normal	Not Existed
		Darzab	Darzab	Vegetative	Normal	Storm
		Aqcha	Aqcha	Vegetative	Normal	Not Existed
	Saripul	Saripul	Saripul	Vegetative	Normal	Not Existed
		Sancharak	Sancharak	Vegetative	Normal	Not Existed
		Sozmaqala	Sozmaqala	Vegetative	Normal	Not Existed
	Faryab	Andkhoy	Andkhoy	Vegetative	Normal	Poor Rainfall
		Garzewan	Garzewan	Emergence	Normal	More Rainfall
	Samangan	Aibak	Aibak	Vegetative	Normal	Not Existed
		Sarbagh	Sarbagh	Vegetative	Normal	Not Existed
		Dara Souf	Dara Souf	Vegetative	Normal	Not Existed
North West	Badghis	Maqur	Maqur	Vegetative	Normal	Not Existed
		Qalainow	Qalainow	Flowering	Normal	Not Existed
	Ghor	Dawlat yar	Dawlat yar	Emergence	Normal	Not Existed
	Hirat	Shindand	Shindand	Vegetative	Normal	Not Existed
		Urdo Khan	Urdo Khan	Flowering	Normal	Not Existed
		Zindajan	Zindajan	Vegetative	Normal	Not Existed
		Gwazara	Falahat	Vegetative	Normal	Not Existed
	Farah	Farah	Farah	Grain filling	Good	Not Existed

Wheat Crop Stage, Condition and Adverse Factor Maps





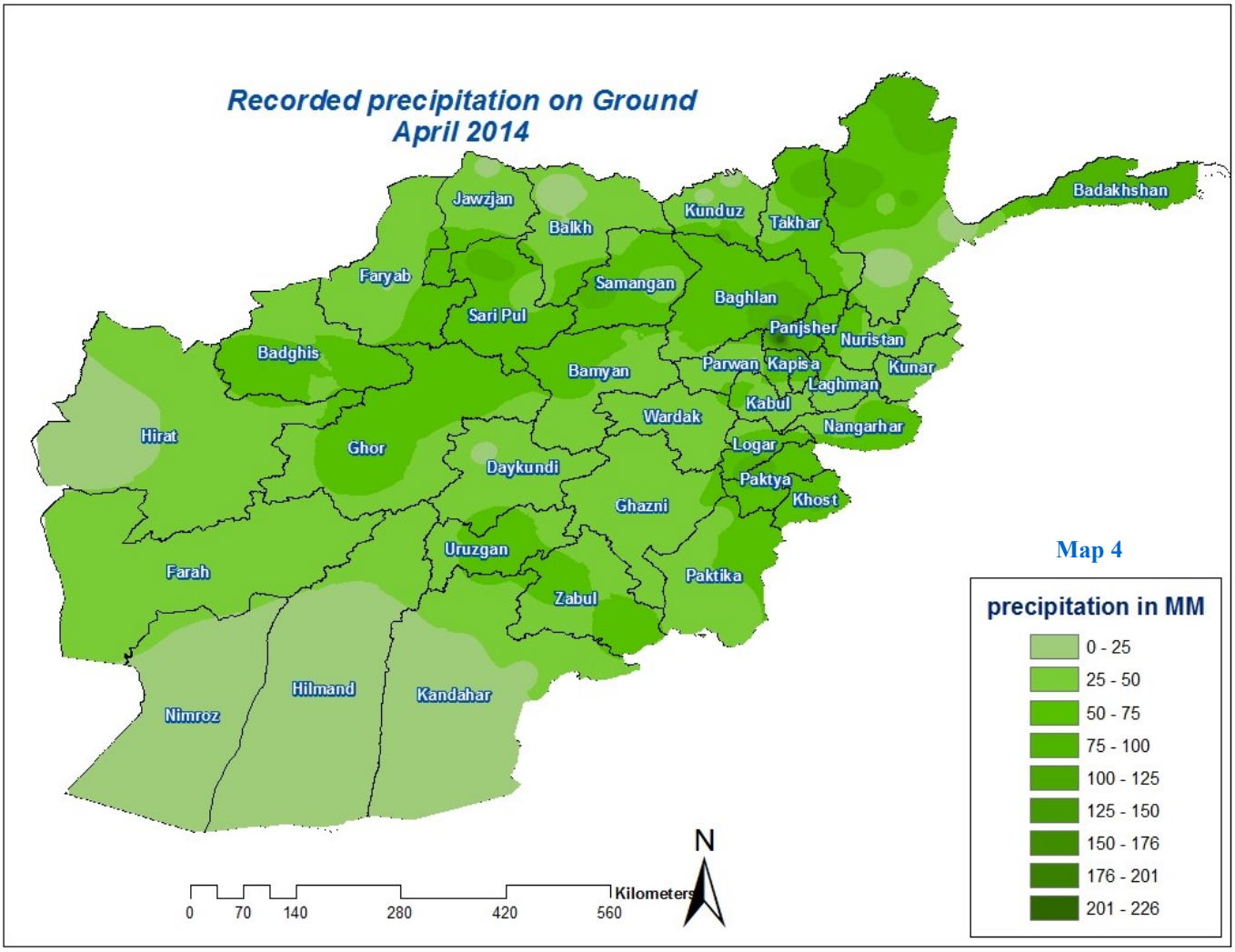


Data Source:Agromet Network

Comparison of monthly rainfall data for the month of April 2014, in contrast to the same month of April 2013, shows variable situation of rainfall in the country in some areas it shows increase of rainfall while in other it shows decrease of rainfall during the month of April 2014, compare to the same month of last year.

Comparison of monthly rainfall data for the month of April 2014 in contrast to the same month of Long Term Average, shows different situation of rainfall in entire country during the month of April 2014 compare to the same month of Long Term Average in most parts of the country it shows increase of rainfall while in other parts of the country especially in some parts of North East and East and few areas of Central it shows decrease of rainfall during the mention period of time.

Widespread rainfall occurred during the month of April 2014, as Map (4) Shows the distribution of rainfall during the month of April 2014, in the entire country as the highest rainfall has occurred in Dashtak district of Pajsheer province which was 237 mm.



Map 4

Data Source: Agromet Network

Precipitation

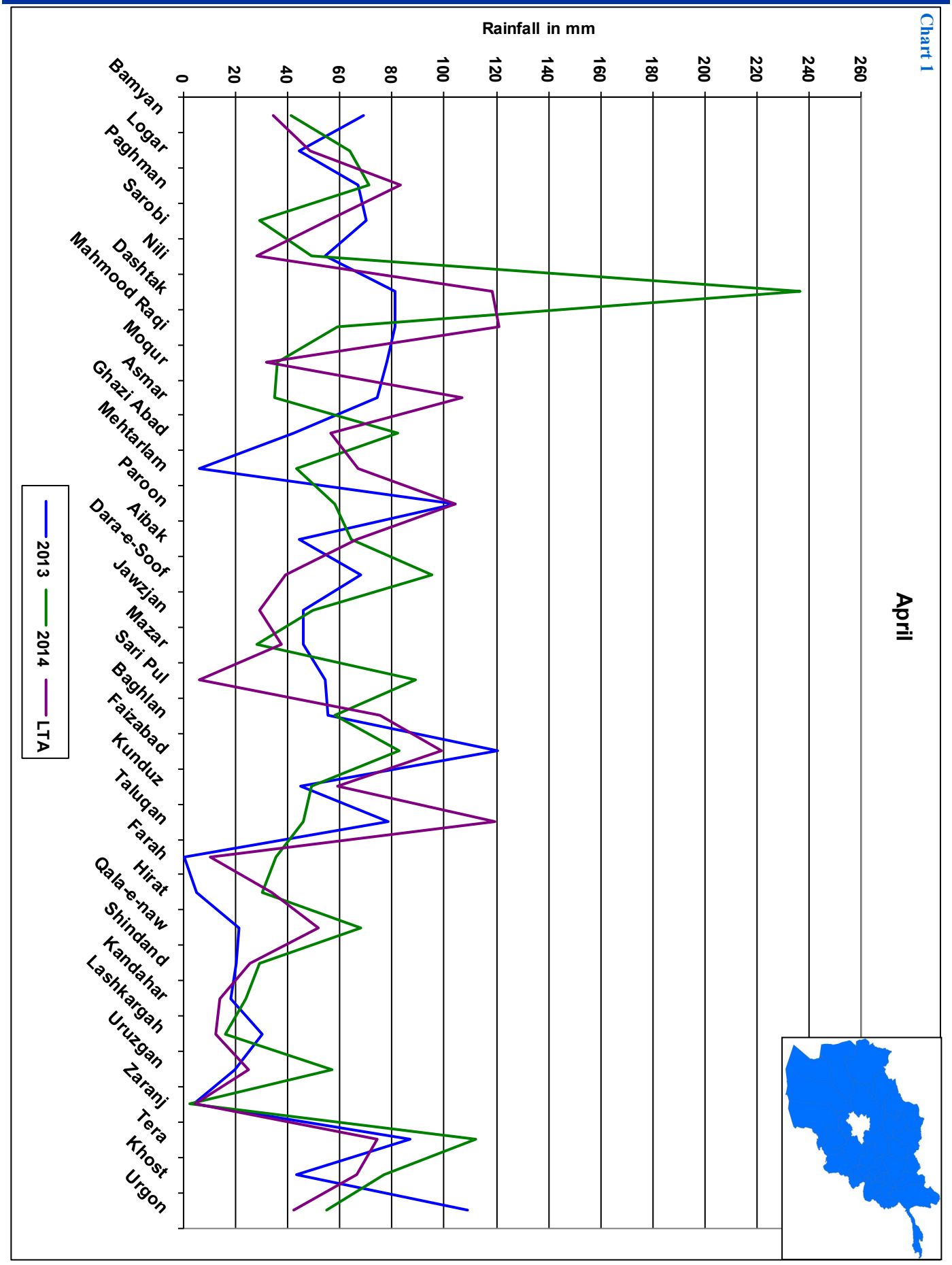
Widespread rainfall has occurred during the month of April 2014, as table 1 shows, during the month of April 2014 in central part to the country Bamyan has received 41 mm, Logar 63.5 mm, Paghman 71 mm, Sarobi 29 mm, Nili 48.8 mm, Dashtak 237 mm, Mahmood Raqi 59 mm and Moqur 36mm of precipitation .The highest precipitation has been recorded in Dashtak center of Pajsheer province which is 237 mm. In Eastern region Asmar has received 35 mm, Ghazi Abad 82 mm, Mehtarlam 43.2 mm, and Paroon 58 mm. The highest precipitation in this regain has been recorded in Ghazi Abad district of Nangarhar province which is 82 mm. In Northern region Aibak has received 64 mm, Dara-e-Soof 95.4 mm, Jawzan 49.5 mm, Mazar 28 mm, and Sari Pul 89 mm, the highest precipitation in this regain has been recorded in Dara-e-Soof district of Samangan province which is 95.4 mm. In North Eastern region Baghlan has received 58 mm, Faizabad 82.5 mm, Taluqan 46 mm, and Kunduz 49 mm, the highest precipitation in the North Eastern region has been recorded in Faizabad center of Badakhshan province which is 82.5 mm. In Southern region Kandahar has received 24 mm, Lashkargah 16 mm, Uruzgan 57 mm, and Zaranj 2 mm, the highest precipitation in this region has been recorded in center of Uruzgan province which is 57 mm. In South Eastern region Tera has received 112 mm, Khost 77 mm, and Urgon 55 mm. In western region Farah has received 35.5 mm, Hirat 30.3 mm, Qala-e-Naw 68 mm and Shindand 29 mm the highest precipitation in the respected region has been recorded in Qala-e-Now center of Badghis province which is 68 mm. In conclusion we can say that, rainfall has two extremes the high extreme has occurred in Dashtak center of Pajsheer province which is 237 mm during the month of April 2014, and the l owest extreme has occurred in center of Zaranj province which is 2 mm during the month of April 2014. For more information regarding the precipitation for the month of April 2014 please, refer to the below table.

Table 3

Station Name	April			Deviation	Comparison	Prediction
	2013	2014	LTA			
Bamyan	68.8	41	34.3	6.7	Above Normal	No Dryness
Nili	54.1	48.8	28.2	20.6	Above Normal	No Dryness
Dashtak	81	237	119	118.4	Above Normal	No Dryness
Logar	44.5	63.5	48.6	14.9	Above Normal	No Dryness
Paghman	67	71	83.1	-12.1	Bellow Normal	Dryness
Sarobi	70	29	55.1	-26.1	Bellow Normal	Dryness
Mahmood Raqi	81	59	121	-62.3	Bellow Normal	Dryness
Rainfall in Bamyan, Nili, Dashtak and Logar were increased in 2014 with respect to Long Term Average (LTA)						
Asmar	74	35	107	-72	Bellow Normal	Dryness
Ghazi Abad	42	82	56.3	25.7	Above Normal	No Dryness
Mehterlam	6	43.2	66.9	-23.7	Bellow Normal	Dryness
Paroon	104	58	104	-46.3	Bellow Normal	Dryness
Baghlan	55.4	58	75.2	-17.2	Bellow Normal	Dryness
Faizabad	120.5	82.5	99.2	-16.7	Bellow Normal	Dryness
Kunduz	45	49	59.2	-10.2	Bellow Normal	Dryness
Rainfall were decreased in 2014 with respect to Long Term Average (LTA) exclude Ghazi Abad						
Taluqan	78.5	46	119	-73.3	Bellow Normal	Dryness
Aibak	44.5	64	66.4	-2.4	Bellow Normal	Dryness
Dara-e-soof	67.7	95.4	38.9	56.5	Above Normal	No Dryness
Jawzjan	45.7	49.5	29.1	20.4	Above Normal	No Dryness
Mazar	46	28	37.6	-9.6	Bellow Normal	Dryness
Sari pul	54	89	6.1	82.9	Above Normal	No Dryness
Kandahar	18	24	13.6	10.4	Above Normal	No Dryness
Lashkargah	30	16	12.2	3.8	Above Normal	No Dryness
Uruzgan	19.8	57	24.7	32.3	Above Normal	No Dryness
Rainfall were increased in Dara-e-soof, Jawzjan, Saripul, Kandahar, Lashkargah and Urzugan with respect to (LTA)						
Zaranj	4	2	4.4	-2.4	Bellow Normal	Dryness
Tera	87	112	74.2	37.8	Above Normal	No Dryness
Khost	43.4	77	66.1	10.9	Above Normal	No Dryness
Moqur	78	36	31.6	4.4	Above Normal	No Dryness
Urgon	109	55	42.4	12.6	Above Normal	No Dryness
Farah	0	35.5	10.1	25.4	Above Normal	No Dryness
Hirat	4.8	30.3	33.6	-3.3	Bellow Normal	Dryness
Qala-e-naw	21	68	51.8	16.2	Above Normal	No Dryness
Shindand	20	29	25.5	3.5	Above Normal	No Dryness
Rainfall were decreased in 2014 with respect to Long Term Average (LTA) exclude Zaranj and Hirat						

Data Source: Agromet Network

Chart 1



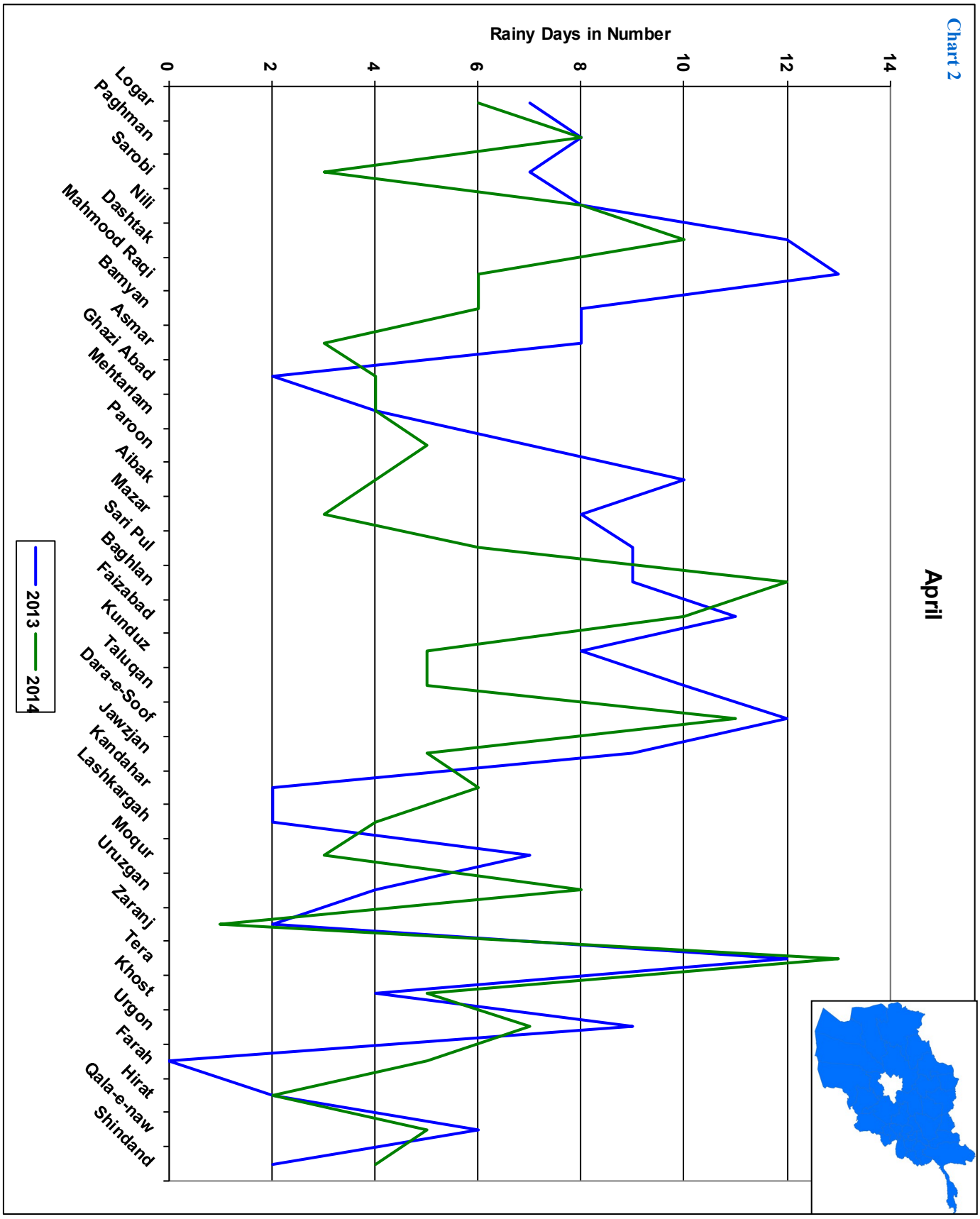
Data Source:Agromet Network

Rainy Days

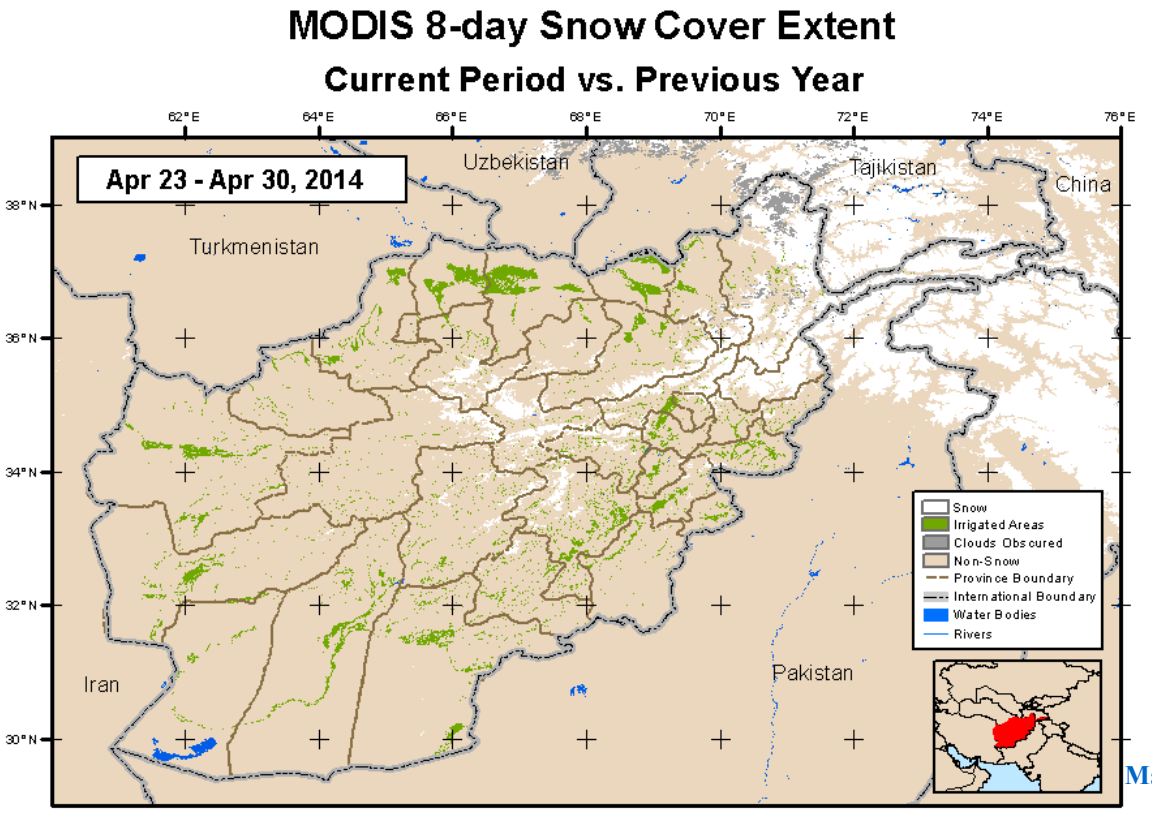
Based on the bellow table, the areas of Ghazi Abad, Baghlan, Kandahar, Lashkargah, Uruzgan, Tera, Khost, Farah and Shindand having higher number of rainy days during the month of April 2014, compared to the same month in 2013. The areas such as, Logar, Sarobi, Dashtak, Mahmood Raqi, Bamyan, Asmar, Paroon, Aibak, Mazar, Sari Pul, Faizabad Kunduz, Taluqan, Dara-e-Soof, Jawzjan, Moqur, Zaranj, Urgon and Qala-e-Now are the areas with the least number of rainy days in April 2014, in comparison to the same month of 2013. The areas such as Paghman, Nili, Mehtarlam and Hirat are the areas that had equal rainy days in comparison to the same month of last year.

Table 2
Comparison Prediction with respect to (2013)

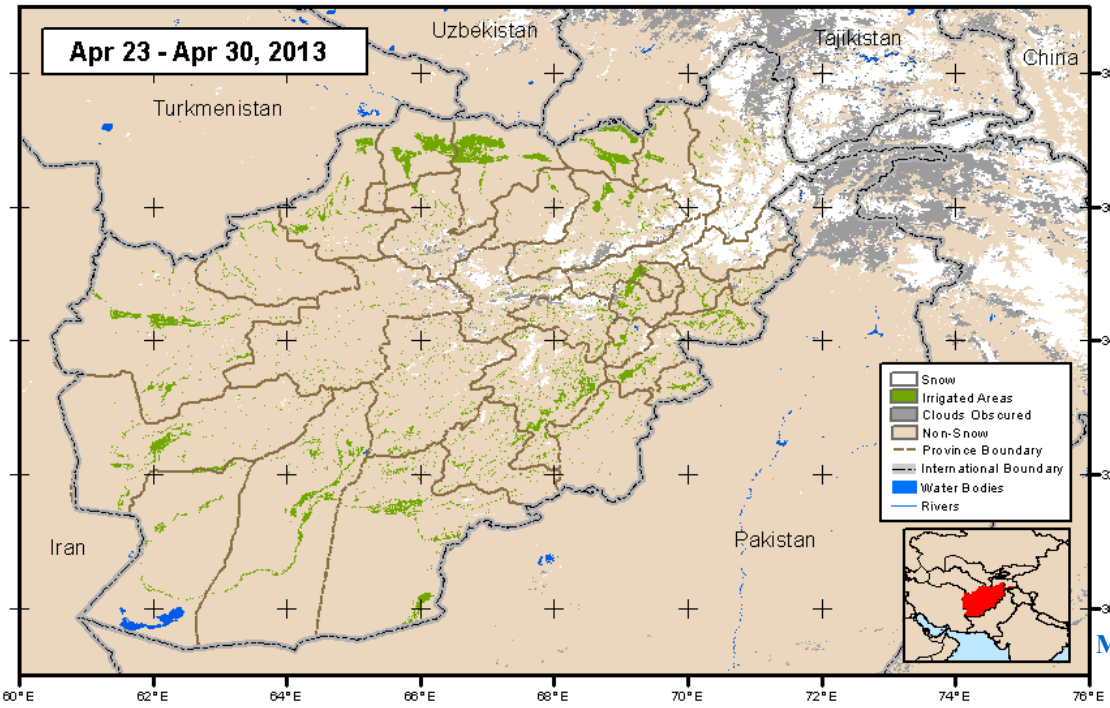
No	Station Name	April		
		Rainy Days		
		2013	2014	
1	Dashtak	12	10	Dryness
2	Logar	7	6	Dryness
3	Paghman	8	8	No Change
4	Sarobi	7	3	Dryness
5	Bamyan	8	6	Dryness
6	Mahmood Raqi	13	6	Dryness
7	Nili	8	8	No Change
8	Ghaziabad	2	4	No Dryness
9	Asmar	8	3	Dryness
10	Mehterlam	4	4	No Change
11	Paroon	7	5	Dryness
12	Aibak	10	4	Dryness
13	Mazar	8	3	Dryness
14	Saripul	9	6	Dryness
15	Baghlan	9	12	No Dryness
16	Faizabad	11	10	Dryness
17	Kunduz	8	5	Dryness
18	Taluqan	10	5	Dryness
19	Dara-e-soof	12	11	Dryness
20	Jawzjan	9	5	Dryness
21	Kandahar	2	6	No Dryness
22	Lashkargah	2	4	No Dryness
23	Moqur	7	3	Dryness
24	Uruzgan	4	8	No Dryness
25	Zaranj	2	1	Dryness
26	Tera	12	13	No Dryness
27	Khost	4	5	No Dryness
28	Urgon	9	7	Dryness
30	Farah	0	5	No Dryness
31	Hirat	2	2	No Change
32	Qala-e-naw	6	5	Dryness
33	Shindand	2	4	No Dryness



Comparison of rainy days for the month of April 2014, with the same month of last year (Chart 2) shows variable situation of rainy days in some parts of the country it shows increase of rainy days while in other parts it shows decrease of rainy days compared to the same month of last year.



Map 5

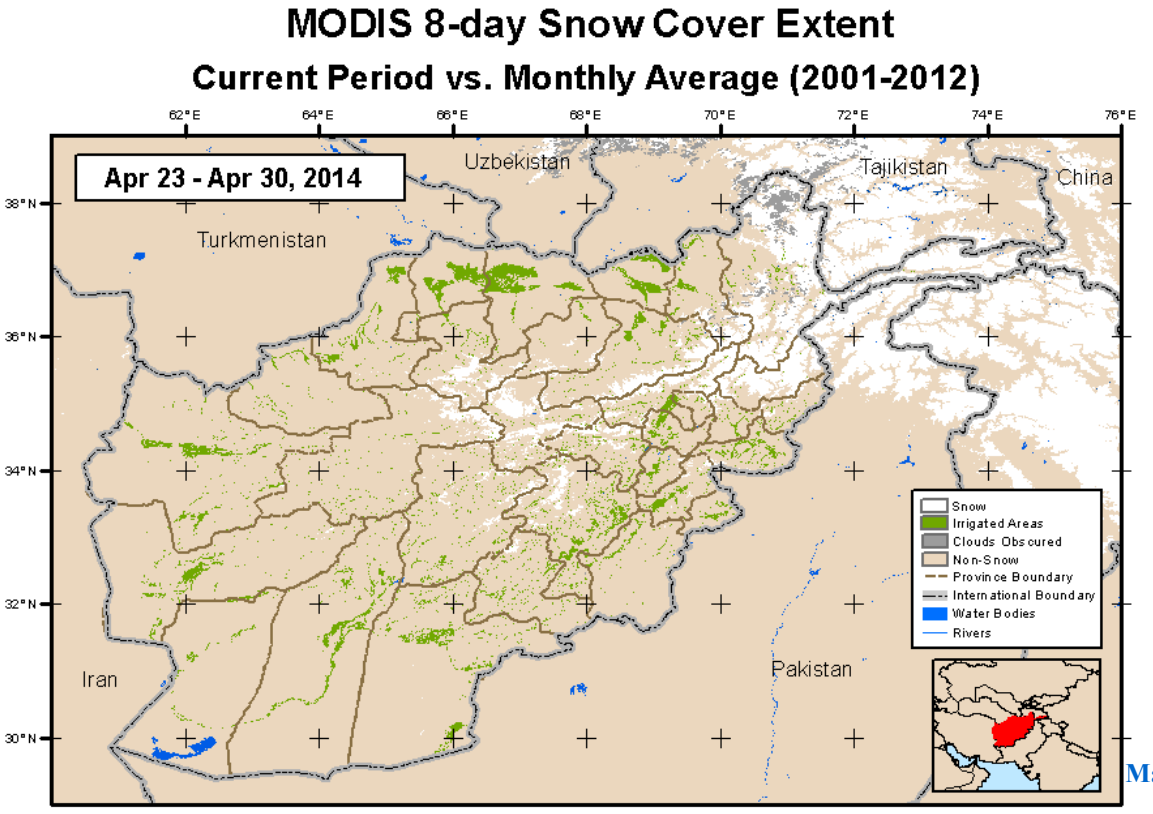


Map 6

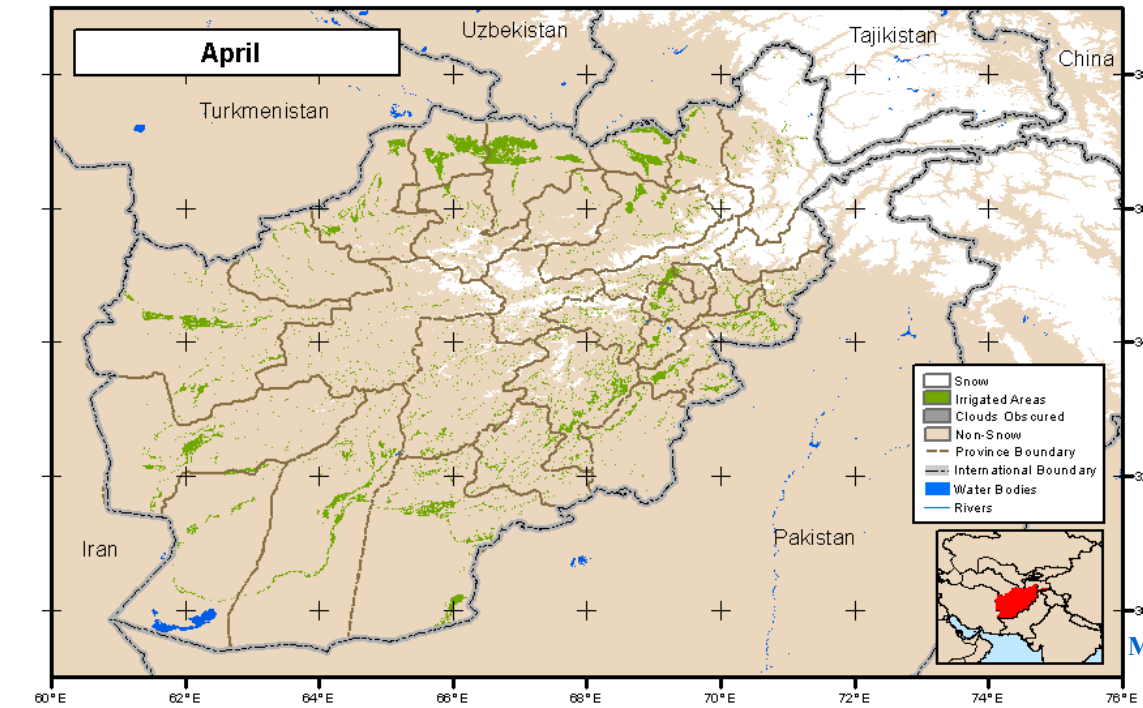
Map created by USGS/EROS

Comparison of snow extent for the period of (April 23 – April 30) 2014 with the same period in 2013 (Map 5 - 6) shows slightly increase in snow extent during the above mentioned period of time over the same period of time in 2013.

Data Source:USGS



Map 7



Map 8

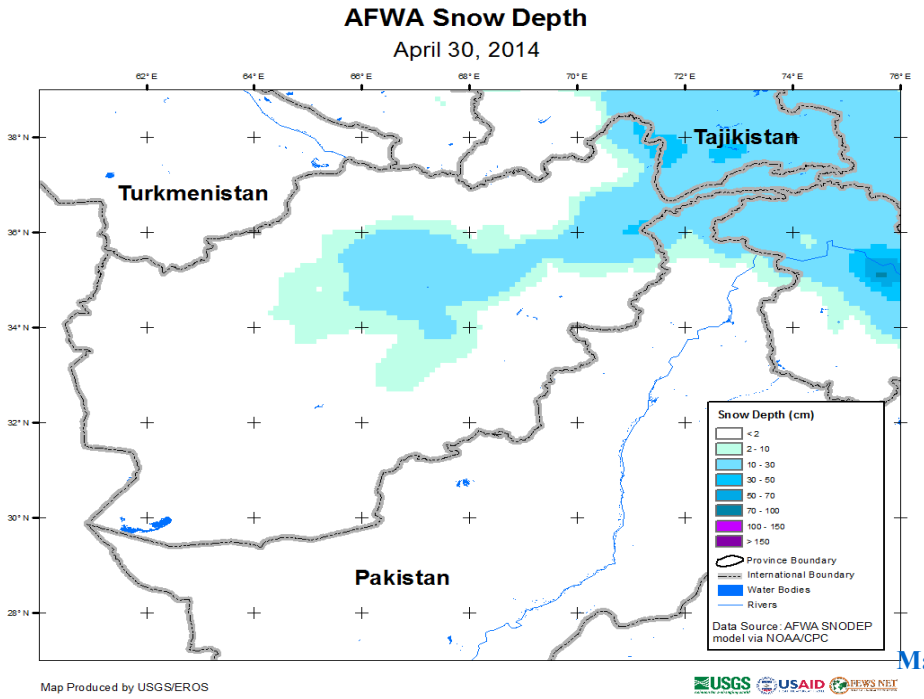
Map created by USGS/EROS

USGS USAID FEWS NET

Comparison of snow extent for the month of April 2014, with the same month of long term average (Map 7-8) shows slightly decrease in snow extent during the month of April 2014, over the same month of long term average.

Data Source:USGS

Afghanistan Snow Depth for month of April 2014



Map 9

Map (9) shows snow depth for the end of April 2014. As map (9) shows the snow depth has been recorded from 10 to 20 cm in some parts of the Central Highlands and North East, and 2 – 10 cm in a few parts of Central Highlands and North.

For more information please contact:

Name	Position	Cell	Email Address
Gh.Rabbani Haqiqatpal	Director of Marketing, Economics &Statistic Division (MAIL)	0700284879	rabani.haqiqatpal@gmail.com

Data Source:USGS